

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049078 A2

(51) International Patent Classification⁷: **A61K 39/39**

(21) International Application Number:
PCT/EP2004/013022

(22) International Filing Date:
17 November 2004 (17.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03026539.1 18 November 2003 (18.11.2003) EP

(71) Applicant (for all designated States except US): **ZLB
BEHRING AG [CH/CH]**; Wankdorfstrasse 10, 3000 Bern
(CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOLLI, Rein-
hard [CH/CH]**; Niesenstrasse 7, CH-3076 Worb (CH).
HODLER, Gerhard [CH/CH]; Farbstrasse 31E, CH-3076
Worb (CH). **STYGER, Regula [CH/CH]**; Pavillonweg 12,
CH-3012 Bern (CH).

(74) Agent: **LAUPPE, Hans, F**; ZLB Behring GMBH, Post-
fach 1230, 35002 Marburg (DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **IMMUNOGLOBULIN PREPARATIONS HAVING INCREASED STABILITY**

(57) Abstract: The present invention relates to a protein preparation having increased stability, comprising a stabiliser selected from the group consisting of non-polar and basic amino acids and having a pH of 4.0 to 5.2. The invention further relates to a pharmaceutical composition and a method of stabilising protein preparations.

WO 2005/049078 A2

BEST AVAILABLE COPY